

TABACHINSKIY, V.F., kand.tekhn.nauk, dotsent; NOVIKOV, Mikhail Nikolayovich,
aspirant; YARCHUK, Andrey Yakovlevich, assistant;
ZAV'YALOV, Valeriy Aleksandrovich, starshiy laborant

Experimental study of the electrical strength of the insulation
of the rotor windings of electric traction motors. Izv. vys.
ucheb. zav.; elektromekh. 3 no.9:147-148 '60. (MIRA 15:5)

1. Zaveduyushchiy kafedroy teoreticheskikh osnov elektrotekhniki
Leningradskogo instituta inzhenerov zheleznodorozhnogo transporta.
(for Tabachinskiy). 2. Kafedra elektricheskikh mashin Leningrad-
skogo instituta inzhenerov zheleznodorozhnogo transporta (for
Novikov). 3. Kafedra teoreticheskikh osnov elektrotekhniki
Leningradskogo instituta inzhenerov zheleznodorozhnogo transporta
(for Yarchuk). 4. Leningradskiy institut inzhenerov zheleznodo-
roznogo transporta (for Zav'yalov).

(Electric railway motors)

(Electric insulators and insulation--Testing)

ALEKSANDROV, Konstantin Borisovich, kand.tekhn.nauk, dotsent; NOVIKOV,
Mikhail Nikolayevich, assistant; PAVLOVSKIY, Vladislav Vital'yevich,
assistant

Experimental study of pulse processes in the traction network of
the N60 electric locomotive. Izv. vys. ucheb. zav.; elektromekh.
4 no.12:66-74 '61. (MIRA 15:1)

1. Kafedra teoreticheskikh osnov elektrotekhniki Leningradskogo
instituta inzhenerov zheleznodorozhnogo transporta (for Aleksandrov,
Pavlovskiy). 2. Kafedra elektricheskoy tyagi Leningradskogo
instituta inzhenerov zheleznodorozhnogo transporta (for Novikov).
(Electric locomotives) (Electric railroads--Current supply)

NOVIKOV, M.N., inzh. (Leningrad)

Effect of external overvoltage waves on N60 electric locomotives.
Elektrichestvo no.6-15-20 Je '61. (MIRA L.10)
(Electric locomotives) (Electric railroads--Current supply)
(Electric protection)

NOVIKOV, M.N., inzh.

Studying the action of external overvoltage on single-phase
N60-series electric locomotives. Trudy LILZHT no.176:47-60 '61.
(MIRA 15:5)

(Electric locomotives—Testing)

NOVIKOV, M.N., inzh. (Leningrad); ALEKSANDROV, K.B., kand.tekhn.nauk,
dotzent (Leningrad)

Calculation of external overvoltages in the power network of the
N60 electric locomotive. Elektrichestvo no.6:27-31 Je '62.
(MIRA 15:6)

(Electric locomotives)
(Electric railroads--Current supply)
(Electric protection)

ALEKSANDROV, Konstantin Borisovich, kand.tekhn.nauk, dotsent; NOVIKOV,
Mikhail Nikolayevich; PAVLOVSKIY, Vladislav Vital'yevich,
assistant

(voltage on the main collector of the N60 electric locomotive.
Izv.vys.ucheb.zav.; elektromekh. 6 no.2:217-223 '63.

(MIRA 16:4)

1. Kafedra teoreticheskikh osnov elektrotekhniki Leningradskogo
instituta inzhenerov zheleznodorozhnogo transporta (for
Aleksandrov, Pavlovskiy). 2. Kafedra elektricheskoy tyagi
Leningradskogo instituta inzhenerov zheleznodorozhnogo
transporta (for Novikov).

(Electric locomotives)

ANDREYUK, L.V.; RANNIV, G.G.; KOROTKEVICH, B.M.; NOVIKOV, M.N.;
DOLZHENKOV, F.Ye.

New developments in research. Stal' 24 no.8:730 Ag '64.
(MIRA 17:9)

NOVIKOV, M.P.; SIVAY, A.V.; TROSHEV, A.I.; YERUKHIMOVICH, TS.M., ZU-
DAKIN, I.M., tekhnicheskiiy redaktor.

[Installation of airplane engines; tools] Montazh aviatsionnykh
dvigatelei; montazhnye prispособleniia. Moskva, Oborongiz, glavnaia
redaktsiia aviatsionnoi lit-ry, 1947. 267 p. (MIRA 8:2)
(Airplanes--Engines)

NOVIKOV, M. P.

Konstruktsionnaya shema i opisaniye. Moskva, Mashiz, Ser. 17, 1. 1972.

Bibliography: p. 272-(172)

Designing assembly files.

NO: 20110.06

5. Manufacturing and Mechanical Engineering in the Soviet Union, Library
of Congress, 1969.

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SO Vecheryaya Moskva
Sum 71

NOVIKOV, M. P.

Assembly of machinery and mechanisms
lit-ry, 1951. 477 p. (51-32608)

Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit.

TJ1160.N62

NOVIKOV, M.P., kandidat tekhnicheskikh nauk.

[Principles of assembly equipment construction] Osnovy konstruirovaniia
sborochnykh prisooblenii. Izd. 2., perer. i dop. Moskva, Gosnaučno-
tekhn. izd-vo mashinostroit. lit-ry, 1953. 342 p. (MLA 6:8)
(Machinery industry) (Tools)

NOVIKOV, M. P.

Agricultural Machinery Industry

Ways and means for mechanizing bench and assembly work, *Sel'mekhanizatsiya* No. 1, 1954.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

MAK IYENKO, Nikolay Ivanovich; NOVIKOV, Mikhail Pavlovich; GLADILIN, A.N.,
kandidat tekhnicheskikh nauk; dotsent, retsenzent; KOROLEV, M.P.,
inzhener; retsenzent; KOPTZVSKIY, D.Ya., redaktor; OSTRIROV, N.S.,
tekhnicheskiy redaktor

[Assembly of machinery] Sborka promyshlennoi produktii. Moskva,
Vses. uchebno-pedagog. izd-vo Trudrezervizdat, 1954. 363 p.
(Machinery) (MLRA 8:6)

NOVIKOV, M.P., kandidat tekhnicheskikh nauk; KOLLI, A.Ya., inzhener,
redaktor; POPOVA, S.M., tekhnicheskiiy redaktor.

[Principles of assembling machines and mechanical devices]
Osnovy sborki mashin i mekhanizmov. Izd.2-oe, perer i dop.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroitel'noi lit-ry,
1955. 507 p. (MLRA 9:1)
(Machinery--Construction)

N VIKOV, M. P.:

NOVIKOV, M. P.: "Investigation of the effect of the age products of Diesel oils on the wearin of a tractor engine." Min Higher Education USSR. Moscow Inst of the Mechanization and Electrification of Agriculture imeni V. M. Molotov. Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Sciences).

SO: Anizhnaya letopis', No 23, 1956

Novikov, M. P.

509-PMJ

A study of the effect of oxidation products on the lubricating properties of Diesel oils using radioactive tracers. N. I. Silinskaya and M. P. Novikov. *Khim. i Tekhnol. Topol.* 1956, No. 8, 63-66. The app., designed primarily for detg. the rate of deterioration of tractor lubricating oils during use, consists of (a) an annular thrust-bearing made of radioactive metal which engages a grinding ring and (b) a ~~radioactive~~ ^{radioactive} ~~grinding~~ ^{grinding} ring, which indicates quantitatively the presence of abraded particles carried by the oil as it circulates through the app. Accessory parts include heating and cooling coils and a gear pump. The lubricating property of the oil is a function of the slope of the curve relating the amt. of abrasion to time. The usual test period is about 200 min. The rate of wear is 0.01-0.03 mg./hr. Numerous tables give the results of tests of Russian oils of various qualities and properties. IL, L. O.

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PHASE I BOOK EXPLOITATION

SOV/1414

Novikov, Mikhail Pavlovich

Mekhanizirovanny instrument dlya sborki mashin (Power Tools for Assembling Machinery) Moscow, Trudrezervizdat, 1957. 231 p.
(Series: Biblioteka molodogo rabochego) 18,000 copies printed.

Scientific Ed.: M.N. Krimerman; Ed.: L.A. Serebrennikova;
Tech. Ed.: V.I. Sushkevich.

PURPOSE: This book is intended for young assemblers. It may also be useful to innovators of the assembly departments of machine-building plants and in some degree to engineering and technical personnel interested in the problems of mechanization of assembly operations.

COVERAGE: The book describes designs of power tools made for industry by specialized plants, and also assembly tools developed and built by individual machine-building plants for their own production needs. Some designs of foreign power tools are presented and the general operating principles of electrical and pneumatic motors used in power tools are given. In the introduction the author

Card 1/3

Power Tools for Assembling (Cont.)

SOV/1414

states that use of universal power tools in various operations makes it possible to cut down assembly time by 40-70 percent as compared to the use of conventional hand tools. It is stated that from 1956-1960 labor productivity in Soviet industry must be increased by not less than 50 percent. No personalities are mentioned. There are no references.

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AVAILABLE: Library of Congress (TJ1195.N6)

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Card 3/3

25(2)

PHASE I BOOK EXPLOITATION SOV/1427

Novikov, Mikhail Pavlovich, Candidate of Technical Sciences

Osnovy sborki mashin (Fundamentals of Machine Assembly)
Moscow, Mashgiz, 1957. 343 p. 25,000 copies printed.

Reviewer: Kapustin, I.I., Doctor of Technical Sciences,
Professor; Ed.: Morozova, M.N., Engineer; Tech. Ed.:
Sokolova, T.F.; Managing Ed. for Literature on Metal Working
and Tool Making (Mashgiz): Beyzel'man, R.D., Engineer.

PURPOSE: This is a textbook for students of machine assembly at
technical schools. It is written to correspond to the teaching
program.

COVERAGE: In addition to the fundamentals of assembling
typical connection and machine units, necessary information
is also presented on the construction of a number of sub-
assemblies and mechanisms. Some problems of the organi-
zation of production, standardization, and safety techniques

Card ~~1/1~~

Fundamentals of Machine Assembly

SOV/1427

are explained. Considerable attention is given to the mechanization of labor-consuming operations in assembling machinery and mechanisms. The author claims this is the first textbook in machine assembly for technical schools. No personalities are mentioned. There are 7 Soviet references.

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Card 2/7

NOVIEOV, M. P. (Cand. Tech. Sci.)

"Present-day Status and Problems in Machine Assembling." p. 20 in book
Modern Trends in the Field of Machine Building Technology; Collection of Articles
Moscow, Mashgiz, 1957, 363 p.

Some of the more progressive mass-assembly methods employed by certain
Soviet machine-building plants are briefly reviewed here.

NOVIKOV, Mikhail Petrovich.; SHPAKOVA, A.P., otv. za vypusk.; OVSYANNIKOV,
M.F., dots., kand. filosofskikh nauk, red.; FURMAN, G.V., tekhn. red.

[Inconsistencies in the socialist system of production and
how to overcome them] Protivorechiya v sotsialisticheskom sposobe
proizvodstva i ikh preodolenie. Moskva, Ob-vo po rasprostraneniyu
polit. i nauchn. znaniy RSFSR, 1958. 31 p. (MIRA 11:12)

1. Zav. otdelom filosofii, pedagogiki, literatury i iskusstva
Pravleniya Obshchestva po rasprostraneniyu politicheskikh i
nauchnykh znaniy RSFSR (for Shpakova).
(Industry)

NOVIKOV, Mikhail Petrovich

[Contradictions in the development of the socialist means of production in the U.S.S.R.] Protivorechiia v razvitii sotsialisticheskogo sposoba proizvodstva v SSSR. Moskva, Znanie, 1958. 47 p. (Vsesoiuznoe obshchestvo po rasprostraneniuiu politicheskikh i nauchnykh znanii. Ser.2, no.40). (MIRA 13:3)
(Russia--Economic policy)

A. 11501 1177
MAKIYENKO, Nikolay Ivanovich; NOVIKOV, Mikhail Pavlovich; DEMENT'YEV, V.I.,
nauchnyy red.; KOPTEVSKIY, D.Ia., red.; LITVAK, D.S., red.;
RAKOV, S.I., tekhn. red.

[Assembly of machinery] Sbornik promyshlennoi produktsii. Izd.2.,
ispr. 1 dop. Moskva, Vses. uchebno-pedagog. izd-vo Trudrezervizdat,
1958. 494 p. (MIRA 11:7)

(Machinery—Erecting work)

BUDZKO, I.A., akademik; NOVIKOV, M.P., kand. tekhn. nauk

Electrification of agriculture in the United States. Mekh. 1 elek.
sots. sel'khoz. 17 no.2:48-51 '59. (MIRA 12:6)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. Lenina
(for Budzko).

(United States--Electricity in agriculture)

BUDZKO, I.A., akademik; NOVIKOV, M.P., kand. tekhn. nauk

Electrification of agriculture in the United States. Mekh.
i elek.sots.sel'khoz. 17 no.3:54-59 '59. (MIRA 12:8)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im.
Lenina (for Budzko).
(United States--Electricity in agriculture)

NOVIKOV, Mikhail Pavlovich; SMIRNOV, O.L.; BUDZKO, I.A.; RADIN, K.S.;
SHLIKHTER, A.A.; GREBTSOV, P.P., red.; GOR'KOVA, Z.D.,
tekhn.red.

[Farm electrification in the U.S.A.] Elektrifikatsiia sel'skogo
khozinstva v SShA. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960.
238 p. (MIRA 14:3)
(United States--Electricity in agriculture)

PHASE I BOOK EXPLOITATION

SOV/4470

Novikov, Mikhail Pavlovich, Candidate of Technical Sciences

Osnovy konstruirovaniya sborochnykh prispособleniy (Design Principles of Devices for Assembly) 3d ed., rev. and enl. Moscow, Mashgiz, 1960. 351 p. 13,000 copies printed.

Managing Ed. for Literature on Metalworking and Machine-Tool Making (Mashgiz):
V.I. Mitin, Engineer; Ed. of Publishing House: M.N. Morozova; Tech. Ed.:
G.V. Smirnova.

PURPOSE: This book is intended for use as a manual for the primary instruction of machinery designers specializing in assembly devices. It may also be useful to students pursuing machine-building studies.

COVERAGE: The author presents a description of fixtures and devices used in the assembly of machinery and discusses design and calculation problems. Particular attention is given to mechanized assembly devices and tools. The question of designing automatic assembly devices is not considered in this book, but will be treated in a separate book by the author. No personalities are mentioned. There are 25 references, all Soviet.

Card 1/6>

ABELEVICH, A.A.; ARTEM'YEV, Yu.N.; VLASOV, A.P.; GAL'PERIN, A.S.; YEVSNIKOV, A.V.; IVANOV, G.P.; KOROLEV, N.A.; LEVITSKIY, I.S.; LIVSHITS, L.G.; MELKOV, M.P.; NAZAROV, N.I.; MOVIKOV, M.P.; POPOV, V.Ya.; TEPIOV, A.G.; BAKHAREV, A.P., inzh., retsenzent; SAVEL'YEV, Ye.Ya., red. izd-va; MODEL', B.I., tekhn. red.; EL'KIND, V.D., tekhn. red.

[Technological aspects of the repair of crawler vehicles] Tekhnologiya remonta gusenichnykh mashin. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry 1960. 466 p. (MIRA 14:7)

(Crawler vehicles—Maintenance and repair)

Navikov, M. I.

FILE : NOT EXISTING

1. The book is a collection of scientific papers, mostly of a technical nature, published in the period 1950-1955. It contains a large number of diagrams, tables, and illustrations. The book is written in Russian and is intended for use by specialists in the field of engineering and technology.

2. The book is a collection of scientific papers, mostly of a technical nature, published in the period 1950-1955. It contains a large number of diagrams, tables, and illustrations. The book is written in Russian and is intended for use by specialists in the field of engineering and technology.

3. The book is a collection of scientific papers, mostly of a technical nature, published in the period 1950-1955. It contains a large number of diagrams, tables, and illustrations. The book is written in Russian and is intended for use by specialists in the field of engineering and technology.

4. The book is a collection of scientific papers, mostly of a technical nature, published in the period 1950-1955. It contains a large number of diagrams, tables, and illustrations. The book is written in Russian and is intended for use by specialists in the field of engineering and technology.

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PREFACE (A. S. Davydov, Director of Technical Sciences, Academy of Sciences)

1. The book is a collection of scientific papers, mostly of a technical nature, published in the period 1950-1955. It contains a large number of diagrams, tables, and illustrations. The book is written in Russian and is intended for use by specialists in the field of engineering and technology.

2. The book is a collection of scientific papers, mostly of a technical nature, published in the period 1950-1955. It contains a large number of diagrams, tables, and illustrations. The book is written in Russian and is intended for use by specialists in the field of engineering and technology.

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Card 9/11	

KORSAKOV, Vladimir Sergeyevich; NOVIKOV, Mikhail Pavlovich; PANTELEYEV, V.V., inzh., retsenzent; BAZHENOV, D.V., inzh., red. graficheskikh rabot; YAKOVLEVA, V.I., red.; MODEL', B.I., tekhn. red.

[Manual on the mechanization and automation of assembling operations] Spravochnik po mekhanizatsii i avtoratizatsii sborochnykh rabot. Moskva, Mashgiz, 1961. 373 p. (MIRA 15:2)
(Assembly-line methods)

NOVIKOV, M.P.; MALOV, A.N., prof., retsenezent; IVANOVA, N.A., red.
izd-va; CHERNOVA, Z.I., tekhn. red.; POBEL', B.I., tekhn.
red.

[Fundamentals of technological processes for the assembly
of machinery and mechanisms] Osnovy tekhnologii sborki ma-
shin i mekhanizmov. Izd. 3., perer. i dop. Moskva, Mashgiz,
1962. 651 p. (MIRA 15:11)

(Machine-shop practice)
(Assembly line methods)

NOVIKOV, M.P., kand.tekhn.nauk

A concern of the whole Soviet people. Trakt.i sel'khoz mash. 32
no.9:1-4 S '62. (MIRA 15:12)
(Agricultural machinery)

SHERMAN, V.L.; LEGON'IKH, G.V.; KORSKOV, V.S., doktor tekhn. nauk,
prof., retsезent; KOV'KOV, M.P., kand. tekhn.nauk, red.;
STROGANOV, L.P., inzh., red.; EL'KIND, V.D., tekhn. red.

[Mechanization of assembling operations in the instrument
industry] Mekhanizatsiya sbornykh rabot v priborostroenii.
Moskva, Mashstiz, 1963. 400 p. (MIRA 17:2)

RABINOVICH, A.N., doktor tekhn. nauk, prof.; NOVIKOV, M.P.,
kand. tekhn. nauk, retsenzent; LAFENOV, O.D., kand.
tekhn. nauk, red.

[Mechanization and automation of assembly work in the
machinery and instrument industries] Mekhanizatsiia i
avtomatizatsiia sbornochnykh robot v mashinostroeni i
priborostroeni. Izd. 2., perer. i dop. Moskva, Mashinc-
stroenie, 1964. 281 ;. (MIRA 17:12)

GAL'PER, L.Z., Inzh.; NOVIKOV, M.S., Inzh.

Modernization of equipment in the light and textile industries.
Mekh. i avtom. pr. izv. 12 no.1:43-44 Jan '64.

(MIRA 17:2)

S/853/62/000/000/008/008
A006/A101

AUTHORS: Zhukov, S. I., Skladnov, I. K., Lapitskiy, Yu. A., Novikov, M. S.

TITLE: Investigating the scale resistance of heat-resistant alloy sheets

SOURCE: Termostoykost' zharoprochnykh splavov, sbornik statey, Ed. by
N. M. Sklyarov Moscow, Oborongiz, 1962, 165 - 169

TEXT: The suitability of sheet materials for the manufacture of combustion chambers was tested on a machine designed by the authors (Author's Certificate no. 80249). The machine makes it possible to check and inspect the sheet material as if under operational conditions. The specimen is heated by passing electric current and cooled by an air jet. The thermal cycles are automatically controlled and their number is registered by a special electric counter. The whole heating-cooling cycle lasts from 30 sec to 2 minutes and more, and depends on the given conditions. One- and two-beveled specimens were tested at temperatures ranging from 200 to 900°C. The specimens were made of alloys X20H80T3 (Kh20N80T3) X20H80T (Kh20N80T) X18H12M2 (Kh18N12M2) X18H11B (Kh18N11B), and chrome steels with 2% Cr and with 5% Ni. The number of thermal cycles until

Card 1/2

Investigating the scale resistance of...

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A006/A101

the breakdown of specimens was almost twice as low for one-bevel as for two-bevel specimens; it decreased with higher quenching temperatures. At these quenching temperatures, alloy Kh2ON8OT was found to be more resistant to the effect of thermal cycles than the Kh2ON8OT3 alloy. The specimens broke down along the grain boundaries without noticeable plastic deformation. Higher quenching temperatures increasing from 1,050 to 1,100°C caused the growth of solid solution grains in alloy Kh2ON8OT and increased ductility at room temperature; ductility was reduced at elevated temperatures. The number of thermal cycles until the appearance of cracks was sharply reduced at higher quenching temperatures. There are 3 tables and 1 figure.

Card 2/2

NOVIKOV, M. S.

USSR/ Agriculture - Milk production

Card 1/1 Pub. 123 - 14/17

Authors : Pak, D. M., and Novikov, M. S.

Title : Lactation of cows raised in unheated stables in winter

Periodical : Vest. AN Kaz. SSR 11, 100-104, Nov 1954

Abstract : Experiments were conducted by various agriculturists to show that cows raised in unheated stables in winter are more productive in milk and the fat content is higher than during the summer. Eight USSR references (1948-1952). Tables.

Institution :

Presented by : Member-Correspondent, Acad. of Sc., Kaz. SSR A. K. Roslyakov

NOVIKOV M.S.

PAK, D.N., kand. sel'skokhozyaystvennykh nauk, laureat Stalinskoy premii;
NOVIKOV, M.S., zasluzhennyy zootekhnik Kazakhskoy SSR; SHATOV, A.V.,
laborant.

Improving the system of raising dairy cows of the desired type.
Zhivotnovodstvo 20 no.4:42-49 Ap '58. (MIRA 11:3)

1. Kazakhskiy nauchno-issledovatel'skiy institut zhivotnovodstva
(for Shatov).

(Kazakhstan--Dairy cattle)

PAK, D.N., kand.sel'skokhozyaystvennykh nauk; NOVIKOV, M.S.; SHEMSHURA,
P.P.

Line breeding as exemplified by Ala-Tau cattle. Zhivotnovodstvo
23 no.8:34-38 Ag '61. (MIRA 16:2)
(Kazakhstan--Cattle breeding)

BOCHAROV, V.N.; DULAYEVA, L.M.; YEVICKIMOV, V.M.; KOLISOV, A.F.;
KASOVSKIY, V.P.; DUBYANOV, E.B.; PUSATOVA, V.A.; BOVILIN,
M.S.; SUKHOVANNENKO, G.I.; IABELEV, V.V.; IZAKHEV, A.S.;
CHERTKO, V.F. (deceased); SHTANSKIY, V.A.; IAB, I.V., ed.;
SELESNEVA, A.I. (ed., ed.).

[Structure of capital investments in the USSR and the
U.S.A. analysis and methods of comparison.] Struktura kapi-
tal'nykh vložhenii SSSR i SShA: analiza i metody srav-
neniya. Moskva, Ekonomika, 1981, 160 p., 24 cm. (VNA 1981)

L. Moscow, Narodnoye gosudarstvennoye izdatel'stvo
statisticheskoy literatury, 1981.

NOVIKOV, M.T., inzhener; ZELENOV, K.G., inzhener.

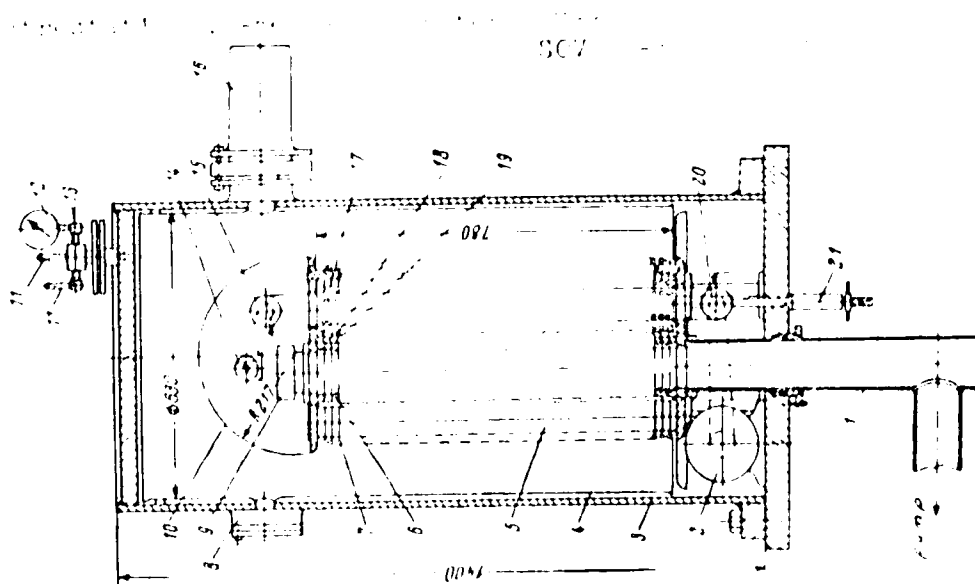
Road construction in winter. Gor.khoz.Mosk. 24 no.2:25-26
(MLRA 7:11)

P '50.

(Moscow--Road construction--Cold weather conditions)

(Road construction--Cold weather conditions--Moscow)

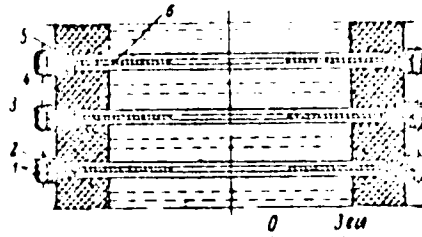
CIA-RDP86-00513R001137430006-6"



A Cathode Ray Tube (CRT) is a vacuum tube that converts electrical signals into a visual image. It is used in many electronic devices, including television sets, computer monitors, and oscilloscopes.

(.) The present invention is a CRT which is designed to be used in a television set. It is a cathode ray tube which is designed to be used in a television set. It is a cathode ray tube which is designed to be used in a television set. It is a cathode ray tube which is designed to be used in a television set.

Fig. 1. Schematic diagram of the cathode ray tube: (1) front panel; (2) light bulb; (3) power supply; (4) power supply; (5) power supply; (6) electrode.



The cathode ray tube is designed to be used in a television set. It is a cathode ray tube which is designed to be used in a television set. It is a cathode ray tube which is designed to be used in a television set. It is a cathode ray tube which is designed to be used in a television set.

Card 3

A Compact Electrostatic High-Voltage Accelerator

307

voltages, U_1 ; (b) potential at which the resonant voltage becomes zero, U_0 ; (c) potential at which a tube becomes ionized followed by a sharp decrease in current, U_{ion} ; and (d) potential at which the Darling experiment is observed, U_{D} . It is noted that the increase in flatness between the electrodes and the insulator shown by sliding the insulation off and on, as indicated by dashed lines on Fig. 4. Experimental results on the tube characteristics shown in Fig. 4, and those with three tubes connected in series in the work by Langford and Reibman (see reference), are compared in Fig. 5. There was not a large difference in performance between the two chains of electrodes. The figures show that a decrease in flatness increases the threshold of applied potential. The magnitude of resonant potential appears to be somewhat less dependent on the tube length and the voltage at which the Geosheer ionization (see reference) occurs than for a conventional tube. The authors present a detailed description of their electron accelerating tube.

Card 4/11

A Composite Electron-Photon γ -ray and X-ray Spectrum

SCV

(2) For each of the 100 neurons, *data* is a list of 100 neurons with a 100 x 100 matrix of *weights*. Weights are chosen to yield a sparse connectivity of $\mu = 0.1$. The number of the possible connections is $100 \times 100 = 10,000$, and the expected number of connections *done* is $10,000 \times 0.1 = 1,000$, resulting in a connectivity of 10%. The selection of the 1,000 connections is done as follows. First, a list of 10,000 random numbers is generated, and sorted in ascending order. The 1,000 smallest numbers are selected as the connections. The expected number of connections is 1,000, but the actual number may vary slightly from 1,000 due to the randomness of the selection process.

[illegible]

C(10) 1000

89201

S/056/61/040/001/006/037
B102/B204

26.23/2

AUTHORS: Pivovarov, L. I., Tubayev, V. M., Novikov, M. T.

TITLE: Dissociation of molecular hydrogen ions in collisions with gas molecules

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 40, no. 1, 1961, 34-39

TEXT: The dissociation cross sections of H_2^+ ions have repeatedly been measured in various energy ranges, in various gases, and by means of various devices, but the data obtained deviated considerably. As, however, it is of importance, in connection with problems of the injection of hydrogen ions into thermonuclear devices and accelerators, to know the dissociation cross section as accurately as possible, the authors carried out a renewed study of the dissociation of H_2^+ ions in their passage through various gas targets within the energy range of from 200-1200 kev. The experimental arrangement is shown in Fig. 1. The hydrogen ion beam is electrostatically accelerated, penetrates the collimator gap 1 (diameter 4 mm) and the magnetic mass monochromator 2 (which served as an analyzer), the beam being deflected by 17° .

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S/056/61/040/001/006/037

B102/B204

Dissociation of molecular ...

The beam then passed through a diaphragm 4 and entered the collision chamber 3 (through a channel of 6.5 mm diameter and 100 mm length), which it then left again through a similar channel; the total length of the collision chamber was 310 mm, it was held by two supports 5. The beam then entered the electrostatic analyzer 6 (200 mm diameter, 1000 mm length), where, in the field of the capacitor, the neutral component, the H^+ and the H_2^+ component was separated. The currents of the positive component were measured by a tube electrometer, connected with the beam catcher 7, the intensity of the neutral particles was measured by a thermocouple detector 8, the emf of the thermocouple was determined by means of a mirror galvanometer of the type M-21/4 (M-21/4). For the purpose of freezing out the condensed fraction, trap 9 filled with liquid nitrogen was used. The pressure of the residual gas in the collision chamber was $\leq (4-5) \cdot 10^{-6}$ mm Hg, that in the surrounding space and in the analyzer chamber $\leq 3 \cdot 10^{-6}$ mm Hg, the pressure at the output of the accelerator tube and in the chamber of the mass monochromator changed during operation from $7 \cdot 10^{-6}$ to $1.2 \cdot 10^{-5}$ mm Hg. The cross sections were calculated according to the formulas

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B102/B204

Dissociation of molecular ...

$$\sigma_{H^+} = \left\{ \frac{d}{d(nL)} \left[2N_{H^+} / (N_{H^+} + N_{H^0}) + 2N_{H_2^+} \right] \right\}_{nL \rightarrow 0} \quad (\text{error} \pm 12\%)$$

$$\sigma_{H^0} = \left\{ \frac{d}{d(nL)} \left[2N_{H^0} / (N_{H^+} + N_{H^0}) + 2N_{H_2^+} \right] \right\}_{nL \rightarrow 0} \quad (\text{error} \pm 15\%).$$

n is the concentration of the gas molecules in the target, L the effective length of the collision chamber. The total dissociation cross section is determined by the three processes $H_2^+ \rightarrow H^+ + H^0$ (I), $H_2^+ \rightarrow H^+ + H^+$ (II), and $H_2^+ \rightarrow H^0 + H^0$ (III), and obeys the formula $\sigma_d = (\sigma_{H^+} + \sigma_{H^0})/2$. As target gases, hydrogen, nitrogen (99.97% pure), as well as He, Ar, and Kr with less than 0.1% impurities were used. The cross sections σ_{H^+} and σ_d as functions of the initial H_2^+ velocity were determined; with increasing energy of the H_2^+ ions, they all showed a monotonic decrease, which was partly greater than that observed by Barnett (Ref. 3). The cross sections of the reactions I and II (in units of 10^{-17} cm²/molecule) measured at different energies are

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S/056/61/040/001/006/037
B102/B204

Dissociation of molecular ...

given in the table for the individual target gases. Within the energy range of from 300-400 kev (in hydrogen), the data obtained agree well with those obtained by Salpeter. The authors thank Academician of the AS UkrSSR A. K. Val'ter for his interest, and Ya. M. Fogel' for discussions. N. V. Fedorenko is mentioned. There are 4 figures, 1 table, and 6 references: 2 Soviet-bloc and 4 non-Soviet-bloc.

SUBMITTED: July 18, 1960

Legend to Fig. 1: 1) to the electrostatic accelerator; 2) to the pump of the type U&V-100 (TsVL-100); 3) by-pass to pump MM-1000 (MM-1000); 4) to the Knudsen manometer; 5) to the pump MM-1000; 6) gas input.

Card 4/5

89201

Dissociation of molecular ...

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B102/B204

Fig. 1

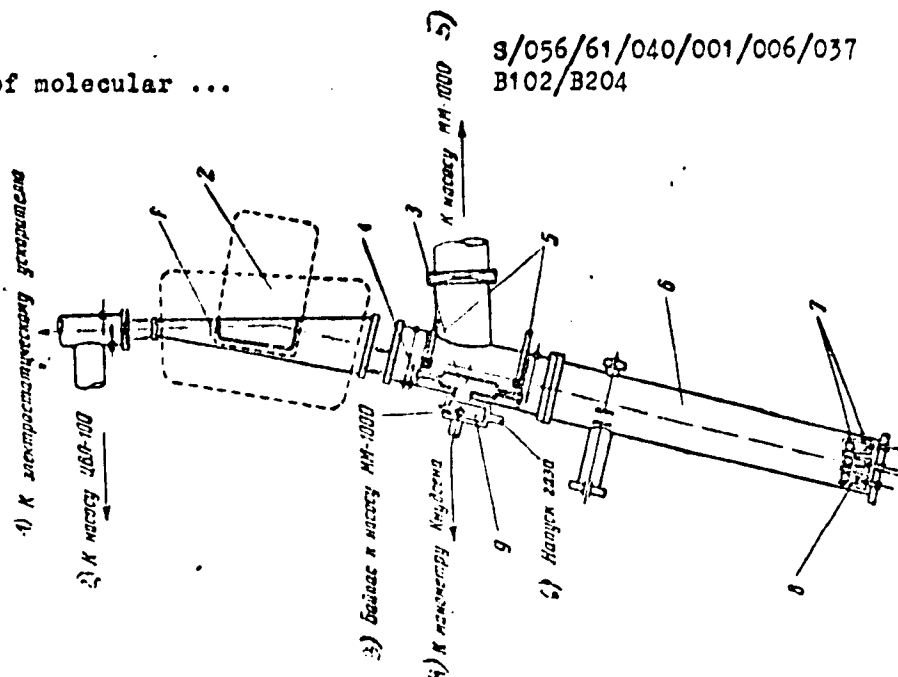


Fig. 1

Card 5/5

26.2340

26408
S. 366-51, 021-101-1-1-021
PROC 8212

AUTHORS: Pivovarov, L. I., Tulayev, V. M., Nivikov, M. F.
TITLE: Electron loss and capture by Be^{+} ions in
gases
PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, no. 1 (7), 1961, 26-31

TEXT: So far, collisions of electrons with ions, atoms and molecules have been investigated only at energies of the order of up to 10 eV. For the further development of the theory of atomic collisions and investigations at higher energies are of interest. The authors published test results on cross sections for electron capture and electron loss for collisions with helium ions and also test results on equilibrium composition of a helium beam during collisions with N_2 , H_2 and also He, Ar, and Ar^+ in the 10-100 eV energy range. The experimental arrangement has been described earlier (ZhETF, 40, 34, 1961). A beam of singly-charged helium ions, emitted from an electrostatic accelerator was separated by a magnetic field and passed through the collision chamber. Both beams He^+ and He^0 were
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26468

Electron loss and capture.

Electron loss and capture.

collected by beam catchers, and their currents were measured with vacuum-tube electrometers of type ЭМХ-3 (EMS-3). The neutral He beam intensity was determined with a detector by measuring the secondary electron emission from a He⁰ bombarded copper foil. This detector is described similarly to that described by P. M. Stier et al. The cross sections σ_{10} and σ_{12} of the electron capture and loss were determined by using the following expressions:

$$\sigma_{10} = \left\{ d \left[\frac{N^0}{N^0 + N^+ + N^{2+}} - \left(\frac{N^0}{N^+} \right) \text{backsc} \right] / d n \right\} / L \rightarrow 0$$

$$\sigma_{12} = \left\{ d \left[\frac{N^{2+}}{N^0 + N^+ + N^{2+}} - \left(\frac{N^{2+}}{N^+} \right) \text{backsc} \right] / d n \right\} / L \rightarrow 0$$

N^0 , N^+ and N^{2+} denote the numbers of neutral atoms, singly ionized and doubly charged helium ions respectively; n denotes the concentration of gas atoms in the collision chamber, and L is their mean free path. For each individual case nL was determined as a function of the ratio of the number of secondary

Card 2/6

26408

electron loss and capture

diagram which is characteristic for helium ions in this case. The authors thank Professor A. K. Val'ter, Member of the Academy of Sciences of the USSR, for his interest in the work. There are 5 figures, 1 table, and 3 references. 1. A. K. Val'ter, *Phys. Rev. Lett.* **10**, 1000 (1963). The three most important references to English language publications read as follows: P. M. Stier et al. *Phys. Rev.* **161**, 1000 (1967); P. M. Stier et al. *Phys. Rev.* **161**, 1000 (1967); J. E. Parlett, *Phys. Rev.* **161**, 1000 (1967).

ASSOCIATION: Kharkovskiy fiziko-tekhnicheskii institut Akademii Nauk Ukrainskoy SSR (Kharkov Institute of Physics and Technology of the Academy of Sciences, Ukrainian SSR)

SUBMITTEL: February 7, 1961

Card 4/6

3051

S/056/62/042/006/013/047
B104/B102

177

26 2712
AUTHORS:

Rivovarov, L. I., Novikov, M. T., Rubayev, V. M.

TITLE:

Electron capture by helium ions in various gases within the energy range 300 to 1500 kev

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42, no. 6, 1962, 1490-1494

TEXT: The cross section σ_{20} of the capture of two electrons by doubly charged helium ions in single collision with H, He, N, Ar, and Kr was measured as well as the cross section σ_{21} of the capture of one electron.

A monochromatic beam of singly charged He ions was produced from an electrostatically accelerated ion beam by means of a monochromator. A beam of variously charged He ions was obtained from it by charge exchange in a special chamber. The He^{2+} ions were separated by means of a magnetic mass monochromator and led into a collision chamber. σ_{20} and σ_{21} were determined mass-spectroscopically. In nitrogen, $\sigma_{21} \sim (v_0/v)^{6.5}$, in argon

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3/056/62/042/006/013/047
B104/B102

Electron capture by helium ...

$\sigma_{21} \sim (v_0/v)^{6.3}$ and in krypton, $\sigma_{21} \sim (v_0/v)^{4.8}$ where v_0 is the velocity of an electron in a hydrogen atom and $v \sim 3v_0$ to $4v_0$. For low energies σ_{20} agrees well with the data of S. K. Allison (Rev. Mod. Phys., 30, 1137, 1958) and V. S. Nikolayev, et al. (ZhETF, 41, 89, 1961). For He^{2+} ion energies of ~ 1300 kev, the values of σ_{20} in He, N, and krypton are about twice as large as those obtained by Nikolayev. For 1000 kev, σ_{20} is nearly three times the experimental value. As the energy increases the experimental values again approach the theoretical ones. The use of Born's approximation in the calculation of the capture cross section is suggested as the reason for this divergence. There are 3 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk Ukraineskoy SSR
(Physicotechnical Institute of the Academy of Sciences
Ukrainskaya SSR)

SUBMITTED: January 30, 1962

Card 2/2

1970-1971, 1972-1973, 1974-1975, 1976-1977, 1978-1979, 1980-1981, 1982-1983, 1984-1985, 1986-1987, 1988-1989, 1990-1991, 1992-1993, 1994-1995, 1996-1997, 1998-1999, 2000-2001, 2002-2003, 2004-2005, 2006-2007, 2008-2009, 2010-2011, 2012-2013, 2014-2015, 2016-2017, 2018-2019, 2020-2021, 2022-2023, 2024-2025, 2026-2027, 2028-2029, 2030-2031, 2032-2033, 2034-2035, 2036-2037, 2038-2039, 2040-2041, 2042-2043, 2044-2045, 2046-2047, 2048-2049, 2050-2051, 2052-2053, 2054-2055, 2056-2057, 2058-2059, 2060-2061, 2062-2063, 2064-2065, 2066-2067, 2068-2069, 2070-2071, 2072-2073, 2074-2075, 2076-2077, 2078-2079, 2080-2081, 2082-2083, 2084-2085, 2086-2087, 2088-2089, 2090-2091, 2092-2093, 2094-2095, 2096-2097, 2098-2099, 2100-2101, 2102-2103, 2104-2105, 2106-2107, 2108-2109, 2110-2111, 2112-2113, 2114-2115, 2116-2117, 2118-2119, 2120-2121, 2122-2123, 2124-2125, 2126-2127, 2128-2129, 2130-2131, 2132-2133, 2134-2135, 2136-2137, 2138-2139, 2140-2141, 2142-2143, 2144-2145, 2146-2147, 2148-2149, 2150-2151, 2152-2153, 2154-2155, 2156-2157, 2158-2159, 2160-2161, 2162-2163, 2164-2165, 2166-2167, 2168-2169, 2170-2171, 2172-2173, 2174-2175, 2176-2177, 2178-2179, 2180-2181, 2182-2183, 2184-2185, 2186-2187, 2188-2189, 2190-2191, 2192-2193, 2194-2195, 2196-2197, 2198-2199, 2200-2201, 2202-2203, 2204-2205, 2206-2207, 2208-2209, 2210-2211, 2212-2213, 2214-2215, 2216-2217, 2218-2219, 2220-2221, 2222-2223, 2224-2225, 2226-2227, 2228-2229, 2230-2231, 2232-2233, 2234-2235, 2236-2237, 2238-2239, 2240-2241, 2242-2243, 2244-2245, 2246-2247, 2248-2249, 2250-2251, 2252-2253, 2254-2255, 2256-2257, 2258-2259, 2260-2261, 2262-2263, 2264-2265, 2266-2267, 2268-2269, 2270-2271, 2272-2273, 2274-2275, 2276-2277, 2278-2279, 2280-2281, 2282-2283, 2284-2285, 2286-2287, 2288-2289, 2290-2291, 2292-2293, 2294-2295, 2296-2297, 2298-2299, 2300-2301, 2302-2303, 2304-2305, 2306-2307, 2308-2309, 2310-2311, 2312-2313, 2314-2315, 2316-2317, 2318-2319, 2320-2321, 2322-2323, 2324-2325, 2326-2327, 2328-2329, 2330-2331, 2332-2333, 2334-2335, 2336-2337, 2338-2339, 2340-2341, 2342-2343, 2344-2345, 2346-2347, 2348-2349, 2350-2351, 2352-2353, 2354-2355, 2356-2357, 2358-2359, 2360-2361, 2362-2363, 2364-2365, 2366-2367, 2368-2369, 2370-2371, 2372-2373, 2374-2375, 2376-2377, 2378-2379, 2380-2381, 2382-2383, 2384-2385, 2386-2387, 2388-2389, 2390-2391, 2392-2393, 2394-2395, 2396-2397, 2398-2399, 2400-2401, 2402-2403, 2404-2405, 2406-2407, 2408-2409, 2410-2411, 2412-2413, 2414-2415, 2416-2417, 2418-2419, 2420-2421, 2422-2423, 2424-2425, 2426-2427, 2428-2429, 2430-2431, 2432-2433, 2434-2435, 2436-2437, 2438-2439, 2440-2441, 2442-2443, 2444-2445, 2446-2447, 2448-2449, 2450-2451, 2452-2453, 2454-2455, 2456-2457, 2458-2459, 2460-2461, 2462-2463, 2464-2465, 2466-2467, 2468-2469, 2470-2471, 2472-2473, 2474-2475, 2476-2477, 2478-2479, 2480-2481, 2482-2483, 2484-2485, 2486-2487, 2488-2489, 2490-2491, 2492-2493, 2494-2495, 2496-2497, 2498-2499, 2500-2501, 2502-2503, 2504-2505, 2506-2507, 2508-2509, 2510-2511, 2512-2513, 2514-2515, 2516-2517, 2518-2519, 2520-2521, 2522-2523, 2524-2525, 2526-2527, 2528-2529, 2530-2531, 2532-2533, 2534-2535, 2536-2537, 2538-2539, 2540-2541, 2542-2543, 2544-2545, 2546-2547, 2548-2549, 2550-2551, 2552-2553, 2554-2555, 2556-2557, 2558-2559, 2560-2561, 2562-2563, 2564-2565, 2566-2567, 2568-2569, 2570-2571, 2572-2573, 2574-2575, 2576-2577, 2578-2579, 2580-2581, 2582-2583, 2584-2585, 2586-2587, 2588-2589, 2590-2591, 2592-2593, 2594-2595, 2596-2597, 2598-2599, 2600-2601, 2602-2603, 2604-2605, 2606-2607, 2608-2609, 2610-2611, 2612-2613, 2614-2615, 2616-2617, 2618-2619, 2620-2621, 2622-2623, 2624-2625, 2626-2627, 2628-2629, 2630-2631, 2632-2633, 2634-2635, 2636-2637, 2638-2639, 2640-2641, 2642-2643, 2644-2645, 2646-2647, 2648-2649, 2650-2651, 2652-2653, 2654-2655, 2656-2657, 2658-2659, 2660-2661, 2662-2663, 2664-2665, 2666-2667, 2668-2669, 2670-2671, 2672-2673, 2674-2675, 2676-2677, 2678-2679, 2680-2681, 2682-2683, 2684-2685, 2686-2687, 2688-2689, 2690-2691, 2692-2693, 2694-2695, 2696-2697, 2698-2699, 2700-2701, 2702-2703, 2704-2705, 2706-2707, 2708-2709, 2710-2711, 2712-2713, 27

Theorem 1. Let $\mathcal{H}$ be a Hilbert space, $\mathcal{K}$ a closed subspace of $\mathcal{H}$, and $\mathcal{L}$ a closed subspace of $\mathcal{K}$. Let $\mathcal{M}$ be a closed subspace of $\mathcal{H}$ such that $\mathcal{M} \perp \mathcal{L}$. Then $\mathcal{M} \perp \mathcal{K}$.

L 44789-65 EWT(1)/EPF(c)/EPA(w)-2/T/EWA(m)-2 Pr-4/Pab-10 IJP(c) WM
 ACCESSION NR: AP5010494 UR/0056/65/048/004/1022/1032

AUTHOR: Pivovarov, L. I.; Tubayev, V. M.; Novikov, M. T.

TITLE: Distribution of charges in beams of ions passing through gaseous targets

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 48, no. 4, 1965, 1022-1032

TOPIC TAGS: charge distribution, ion beam, gas target, charge fraction, hydrogen, helium, nitrogen, neon, argon, krypton, ionization

ABSTRACT: The charge distribution was measured in nonequilibrium and equilibrium beams of N, Ne, Ar, and Kr ions, with energies of 200-1300 kev, passing through targets of gaseous hydrogen, helium, nitrogen, neon, argon, and krypton. The apparatus employed was the same as described by the authors earlier (ZhETF v. 46, 471, 1964). The random measurement errors were of the order of $\pm 4-5\%$ for components with charge particles, and $\pm 10\%$ for the neutral beam component. The ion energy was accurate to 1.5% except at accelerator voltages of 200-400 kv when

fractions in the beam does not depend on the ion scattering angle, and that the

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ACCESSION NR: AP5010494

nonequilibrium average charge for non-zero scattering angles decreases with the increasing pressure in the collision chamber. A noticeable difference between the equilibrium distribution of the charges in the different gases was established for all the investigated ions. Empirical formulas are derived for the dependence of the ratio of the charge fractions and of the average charge on the ion velocity. Other characteristics investigated were the dependence of the degree of ionization on the velocity of the ions passing through the target, and the dependence of the degree of ionization on the target charge. "In conclusion we thank Professor A. K. Vol'ter for interest in the work, and also the accelerator operators K. M. Khurgin and V. G. Rubashko for help with the measurements." Orig. art. has: 8 figures, 2 formulas, and 1 table. [02]

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk Ukrainsskoy SSR (Physico-technical Institute, Academy of Sciences, UkrSSR)

NO. RHP BOV: 007 OTHER: 008 ATD PRESS: 3258

Card 2/2

L 8216-66 EWT(1)/EWA(m)-2 IJP(c) AF
 ACC NR: AP5024690 SOURCE CODE: UR/0056/65/049/003/0734/0742
 44,55 44,55 44,55
 AUTHOR: Pivovarov, L. I.; Novikov, M. T.; Dolgov, A. S.
 44,55
 ORG: Physicotechnical Institute, Academy of Sciences UkrSSR (Fiziko-tekhnicheskii institut Akademii nauk Ukrainsskoy SSR)
 TITLE: Deep stripping and scattering of positive krypton ions in single collisions with Ne, Ar, Kr, and Xe atoms
 SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 3, 1965, 734-742
 21,44,55 21,44,55
 TOPIC TAGS: krypton, neon, argon, xenon, ion interaction, electron interaction, differential cross section, integral cross section, electron capture, nuclear shell model, electron loss

ABSTRACT: The purpose of the investigation was to study ion scattering accompanied by deep stripping of electrons and to ascertain the part played by inner-shell electrons in the interaction of colliding particles. This was done (in an angle range 0 - 20)

L 8216-66

ACC NR: AP5024690

gle range $0-1^\circ$ were measured directly. The apparatus and procedure employed were described earlier (ZhETF v. 46, 471, 1964). From the results it is concluded that the inner M-shell electrons of krypton ions participate considerably in the interaction process; moreover, it is established that the average Kr^+ ionization energy depends on the nature of the target atom. The average ion charge for single collisions and nonzero angles is directly proportional to the ion velocity. The data obtained also make it possible to determine the integral cross sections for the loss and capture of electrons by Kr^+ ions. Authors thank the accelerator operators K. M. Khuryzin and V. G. Rubashko for help with the measurements. Orig. art. has: 8 figures and 3 formulas.

SUB CODE: NP/ SUBM DATE: 08Apr65/ ORIG REF: 006/ OTH REF: 006

Card

2/2

L 24345-66 EAT(1) IJP(c) AT
ACC NR: AP6010973

SOURCE CODE: UR/0056/66/050/003/0537/0545

AUTHOR: Pivovarov, L. I.; Novikov, M. T.; Dolgov, A. S.

ORG. Physicotechnical Institute, Academy of Science, Ukrainian SSR (Fiziko-tekhniche-
skiy institut Akademii nauk Ukrainiskoy SSR)

TITLE: Differential and integral cross sections for electron loss and capture by
fast N^+ , Ne^+ and Ar^+ ions

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 3, 1966,
537-545

TOPIC TAGS: electron capture, electron loss, capture cross section, noble gas, neon,
argon, nitrogen, ion, krypton, xenon, collision cross section

ABSTRACT: The charge distributions in beams of nitrogen, neon, and argon ions were
measured as a function of the energy and the scattering angle in single collisions
with neon, argon krypton and xenon atoms. At high energies of argon ions, L-shell
electrons are found to be involved in the interaction. The total differential
scattering cross sections for nitrogen, neon and argon ions were compared with the
calculated differential scattering cross sections for the case of a coulomb potential
with exponential screening. Results of measurement of the total cross sections for
capture of one or loss of several electrons by N^+ , Ne^+ and Ar^+ ions in single colli-

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ACC NR: AP6010973

sions with neon, argon, krypton and xenon atoms are presented. The total cross
sections obtained are compared with the data of other authors.

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[CS]

SUB CODE: 20/ SUBM DATE: 02Oct65/ ORIG REF: 005/ OTH REF: 004/

Card

2/2

YEMCHENKO, B., podpolkovnik; NOVIKOV, M., inzh.-kapitan

Making holes in ice by blasting. Voen.-inzh.zhur. 97 no.2:41-
43 F '53. (MIRA 12:4)
(Ice on rivers, lakes, etc.) (Blasting)

~~NOVIKOV, M. V.~~ KONTUKOV, V. I.; USPENSKIY, N. M., redaktor; ANDRIANOV, B. I.,
tekhnicheskiy redaktor

[Flame throwers and incendiary weapons] Ognemetno-zazhigatel'noe
oruzhie. Moskva, Izd-vo DOSAAF, 1957. 86 p. (MLBA 10:9)
(Flame throwers) (Projectiles, Incendiary)

NOVIKOV, M., inzh.-major.

Shaped charge projectiles in military science. Tankist no.3:54-57
Kr '58. (MIRA 11:5)

(Tank warfare) (Projectiles)

NOV IKOV, H., inzh.-major

English guided missiles. Voen.znan. 34 no.4:32-40 Ap '52.
(Great Britain--Guided missiles) (MIRA 11:4)
(Rockets (Ordnance))

NOVIKOV, M., inzh.-major

Overcoming mine obstacles. Voen. znan. 34 no.8:12-13 Ag '58.
(MIRA 11:12)

(Mines, Military)

NOVIKOV, M., kapitan 3-go ranga

Helmsmen. Voen. znan. 35 no.5:20-21 My '59. (ITPA 12:12)
(Ship handling)

NOVIKOV, M.V. [Novykov, M.V.], dotsent

Great scientist and innovator. Nauka i zhyttia 10 no. 11:47-48
N '60. (MIRA 14:4)

(Pirogov, Nikolai Ivanovich, 1810-1881)

NOVIKOV, Marian Vasil'yevich; USPENSKIY, N.M., red.; MUKHINA, Ye.S., tekhn.
red.

[Invisible energy] Nevidimyyi vrag. Moskva, Izd-vo DOSAAF, 1961. 69 p.
(MIRA 14:11)

(Mines, Military)

NOVIKOV, M., inzh.-mayor

In cold depths. Starsn.-serzh. no.4 (7):15 Ap '61.

(Diving, Submarine)

(MIRA 14:7)

NOVIKOV, M., inzhener-mayor

Hands of a mine deactivator. Starsh.-serzh. no.7:11 00 '61.
(MIRA 14:9)
(Mines, Submarine)

NOVIKOV, M., inzh.-podpolkovnik

Mine detectors. Voen. znan. 37 no.10:24-25 0 '61. (MIRA 14:9)
(Mines, Military)

NOVIKOV, M., inzhener-podpolkovnik

Not a thermite charge but a shaped-charge shell. Staran.-serzn.
no.3:24-25 Mr '62.

(MIRA 15:4)

(Shaped charges)

NOVIKOV, M., inzh.-podpolkovinik

Modern mines (from the foreign press). Voen.znan. 38 no.12:25-
26 D '62. (MIRA 15:12)

(Mines, Military)

L 18884-63

ACCESSION NR: AP3002279

3/0017/63/000/006/0010/0011

AUTHOR: Novikov, M. (Engineer Lieutenant Colonel)

45

TITLE: The Rocketeer's Seconds [Training for speed and accuracy]

SOURCE: Voennoye znaniya, no. 6, 1963, 10-11

TOPIC TAGS: mobile rocket launcher, training

ABSTRACT: The article presents a nontechnical, anecdotal account of a mobile rocket launching crew's efforts to cut down on launching time.

ASSOCIATION: 000

SUBMITTED: 000

DATE ACQ: 12Jul63

ENCL: 00

SUB CODE: ML

NO REF SOV: 000

OTHER: 000

Card 1/1

NOVIKOV, Marian Vasil'yevich; SGIBNEV, Aleksandr Andreyevich;
GROMOV, O.V., podpolkovnik, red.

[Exploit in the land of Algeria] Podvig na zemle Alzhira.
Moskva, Voenizdat, 1965. 117 p. (MIRA 18:12)

NOVIKOV, W.Ya., kandidat tekhnicheskikh nauk.

Construction of roads on drained swamps. Gidr.i mel. 8 no.5:29-36
My '56. (MLRA 9:8)

(Roads)

НОВИКОВ, М.Я., канд.техн.наук

Building local highways in Polesye swamps. Avt.dor. 20 no.8:15-17
Ag '57. (MIRA 12:4)

(Polesye--Road construction)

USSR/Medicine - Gangrene Gas
Medicine - Wounds, Therapy

Feb 48

"Clinical Problems in the Treatment of Gas Infection," M. Yu. Novikov, Evacuation Hosp No 1502, 2 pp

"Sov Med" No 2

During the war, gas infection was the most serious wound complication, and is a chief cause of mortality in limb wounds. Analyzes 168 cases. Lists usual symptoms. Advises X-rays as aid to diagnosis. Main prophylactic method is proper first-aid treatment of wound. Surgical intervention should be resorted to at the first signs of anaerobic infection.

h/49756

USSR/Medicine - Gangrene Gas (Contd)

Feb 48

Intra-arterial injection of 5 cc of 2% potassium permanganate deserves attention and should be further investigated. Anti-gangrene serums, blood transfusion and intravenous injections of liquids in large quantities are useful subsidiary methods of treatment. Intramuscular injection of 10 cc of 10% sodium hyposulfite is of use to prevent anaphylactic phenomena during serotherapy.

h/49756

NOVIKOV, M. YU.

BARANNIKOV, F.; NOVIKOV, N., red.

[Under the canopy of the Genius of Liberty] Pod sen'm
genia svobody. Moskva, Izd-vo "Izvestiia," 1966. 100 p.
(MIRA 18-3)

6(0)

SOV/111-59-8-17/30

AUTHOR: Novikov, N. A., Chief

TITLE: We Are Introducing New Techniques and Implementing Automation and Mechanization of the Means of Communication

PERIODICAL: Vestnik svyazi, 1959, Nr 8, pp 20-21 (USSR)

ABSTRACT: In this article the author outlines recent work on modernization and mechanization of the communications facilities in the Stanislavskaya oblast' and the city of Stanislav. He first treats modernization of the telephone system: he states that 75% of the overall number of intra-province telephone channels at the Stanislav inter-city telephone station (MTS) are now high-frequency channels; intra-district (VRS) lines are multiplexed with OV-3 and VS-3 high-frequency systems; a simplified VS-3 without APC in channel 1 will be put into use this year; direct 24-hour telephone connection with all district (rayón) centers has been established; all local battery systems will be replaced by central battery and automatic telephone station (ATS) systems this year; the first ATSS in the Dolina and Kalush rayon centers

Card 1/5

SCV/111-09-8-17/30

We Are Introducing New Techniques and Implementing automation and Mechanization of the Means of Communication

were put into operation this year, and all telephone communications in the Kalush rayon are now automatic; growth of the public telephone system is also mentioned; automation of VRS telephone facilities - 73% of VRS substations will be on ATS and UPTS this year - is also discussed; other work is outlined as well. Modernization and automation of the telegraph communications system is also dealt with; it is stated that 26 rayon telegraph lines only 8 are using the ST-35 equipment, and the subscriber telegraph is operating at only 35% of capacity; old VTR equipment is still being used on acoustical telegraph lines, and delivery of the modern TT-ChM-12/16 equipment is still awaited. Improvements in the radio broadcasting and relay networks are treated: installation of TU-5 (in 3 rayons) and TU-090 (in 10 rayons) equipment is being continued, and the number of radio centers using the TU-5 is now 35% of the overall number; battery powered centers have been eliminated; kolkhoz radio centers are being closed and their networks

Card 2/5

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We Are Introducing New Techniques and Implementing Automation and
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joined to those of the Ministry of Communications centers; only 13 kolkhoz centers, of 42, remain, and at the end of this year there will be only 6; Brodskiy, Chief Engineer of the DRTS, has developed and introduced a system of centralized program feed from the Stanislav radio center to 21 units of the rayon centers in the oblast built around the RDP-3-10 apparatus, and operating at 31.5 kc; this year a similar system will be organized for 3 other rayons, but operating on 85 kc; almost all radio centers have their own power sources, but many use the now discontinued ND-9 and DSA-10 diesel units which are beginning to be replaced by the modern ZhES-30, 1-ChA and 2ChA diesel units (available only in small quantity); the Seven Year Plan provides for the installation of a powerful (5/2.5 kw) TV relay station in Stanislav in 1965, but temporary TV broadcasting has been organized using a TRSA-56 relay unit (100 w); Eydel'nant and Petrash of the Stanislav DRTS are setting up a cine-channel built around the TRSA-56

Card 3/5

SOV/111-59-8-17/30

We Are Introducing New Techniques and Implementing automation and Mechanization of the Means of Communication

for showing local news reels and announcements; the combination of radio feeders and VRS lines is also treated - four-conductor combined feeders, proposed by Brodskiy, are used, and Brodskiy has also proposed increasing the voltage on radiofication feeders from 240 to 360 V, with the result that the load can be increased by 30%; voltage in the VRS telephone circuits was also raised in order to maintain the necessary iterative attenuation between VRS and radiofication circuits. Mechanization and motorization of postal work and delivery is also briefly discussed; to speed the delivery of central and republic newspapers two air routes, Stanislav - Kiyev and Stanislav - L'vov, have been organized. The author notes that in 1959 the first mechanized column will be organized on the Kolomyia section of the LTU. He treats production of reinforced concrete buttresses and supports, and mechanization of the process of their manufacture and installation; in two years, he states, up to 20,000 Pr-1 and SPR-23 reinforced concrete buttresses were made and

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SOV/111-59-3-17/3

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put into use, and this year, he adds, more than 1,200 m³ of reinforced concrete products must be made; of three yards at SMUR and the LTU only the SMUR yard has the proper mechanization, which includes the half-ton "Pioneer" crane, a BUS-4 drilling crane, 1-7 shakers, an IS 22/40 rock crusher, a VGD 40/3 boiler, and a narrow-gage railway line. Plans for setting up facilities for manufacturing 2,000 m³ of reinforced concrete per year are outlined. There is 1 photograph.

ASSOCIATION: Stanislavskoye oblastnoye upravleniye svyazi (Stanislavskaya Oblast Communications Administration)

Card 5/5

NOVIKOV, N. A.

~~Author's method of extraction of foreign bodies from trachea and~~
Author's method of extraction of foreign bodies from trachea and
bronchi. Vest. otorinolar. 12:6, Nov.-Dec. 50. p. 61-4.

1. Of the Clinic for Diseases of the Ear, Nose, and Throat
(Head -- Prof. S. I. Shumskiy), Tashkent Medical Institute,
Tashkent.

CML 20, 3, March 1951

175-1 Kov, N. A.

It is also possible that the observed differences in the response of the two groups may be due to differences in the underlying pathophysiology of the two groups. For example, the presence of a more severe underlying disease in the elderly group could lead to a more pronounced response to the intervention.

be Jour: 08.01.1977, 10.00, 20.00, 27.00

Author: Novikov,

inst:

Title: Theargh.x

ref. pub. Nat. Acad.. Shockmans, 1967, ibid., 43-47

Abstract: The vocal carcinomas are carcinomas of the epiglottis, false chord, aryepiglottic fold, aryepiglottic ventricle. The true vocal chord are benign neoplasms; therefore, meta tumor appear later and move more slowly. The false vocal chords are rich in lymphatic vessels; therefore, metastatic spread therefrom occurs early. Prognosis depends upon the location of the tumor; it is different for cancer of the true vocal chord, the aryepiglottic fold, the ventricle, and the ventral base of the larynx.

Red : 2/2

General problems of pathology. Tumors.

T-

on: Ref. Zh.-Biol. 1958, 7769

Abstract: patients studied. 45 were considered incurable and 95 were subjected to radical treatment. Grade I carcinoma was found in 13% of patients, grade II in 23%, grade III in 30% and grade IV in 34%. When carcinoma of the larynx is suspected a biopsy is necessary. Among carcinomas of the larynx, the squamous cell type is most common. The treatment of the larynx was conducted by a fractionation method. The radiation from 20 to 40; the total dose was 600 r.. The results were satisfactory in grades I and II of the disease.

7/2

NOVIKOV, N.A., kandidat meditsinskikh nauk.

Novocaine block of the cervical vagus and sympathetic nerves in
vasomotor rhinitis. Vest. oto-rin. 18 no.1:74-75 Ja-F '56.

(MIRA 9:6)

1. Iz kafedry bolezney ukha, gorla i nosa (zaveduyushchiy professor
S.I. Shumskiy [deceased] Tashkentskogo meditsinskogo instituta.
(LOCAL ANESTHESIA) (COLD (DISEASE))

NOVIKOV, N.A., dotsent; FEYGIN, G.A.

Two observations of a conservative treatment of ruptures
of the cervical region of the esophagus. Zhur. ush., nos.
i gorl. bol. 23 no.1:74-75 Ja-F '63. (MIRA 17:2)

1. Iz kafedry bolezney ukha, gorla i nosa (zav. - prof.
I.Yu. Laskov) Tashkentskogo gosudarstvennogo meditsinskogo
instituta.